

# 7845C



**Control  
Channel  
Cellular  
Subscriber  
Transceiver**

**By using cellular control channels, the 7845C offers virtually limitless coverage.**

The 7845C communicates on the Cellular Network's Control Channel. Alarm and status packets are transmitted into the cellular network control channel where they are identified and routed to the AlarmNet Control Center. The AlarmNet Control Center logs status checks and routes alarms via RF to any AlarmNet equipped Central Station anywhere in the country. There is no cellular phone call required and no system busy conditions to deal with. It is fully supervised by AlarmNet and there is a low fixed monthly charge for normal traffic. There is no additional hardware or software required in Central Stations already equipped to receive AlarmNet. The transceiver connects to most ADEMCO alarm control panel.

## FEATURES:

### Radio features:

- Low cost
- Compact size
- Powered from the panel
- Nationwide cellular system coverage
- Interfaces with ADEMCO alarm controls to the AlarmNet radio network for alarm signal transmission
- Seamless, wireless connectivity through cellular networks, to AlarmNet equipped Central Stations
- Timed status check-in for radio link supervision
- Built in signal strength meter
- Choose between one of 4 modes: Contact ID, Zone, Relay Emulation Mode or 4229 Mode

### Applications:

**Provides the highest level of security available. Dealers can connect the 7845C to almost any security system to transmit alarms and supervisory signals to the Central Station in the event telephone service is interrupted.**

- Back-up to phone line interruption
- Seamless, wireless connection to AlarmNet equipped Central Stations
- Battery backup
- Automatic cover and antenna tamper protection
- Household burglary - UL1023
- Central station burglary - UL1610
  - Grade A
  - Grade B
- Police connect burglary - UL 365
  - Grade A
- Contact ID when connected to appropriate ADEMCO control panel

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ALARMNET®

## SPECIFICATIONS:

### Installation:

After the radio is powered up, the LED should be observed to determine the optimal installation location. The installation LED will indicate signal strength, network contact and installation suitability. The radio is wired to the panel per wiring diagram provided with the radio. It can be installed close to or inside the panel itself. Installing 7845C within the panel may require the use of external antenna 78250C. The radio is mounted according to the mounting instructions noting that the antenna must be vertical. Radio should not be mounted where it would be obstructed by a steel structure or security doors and windows which may be pulled down at night.

### Programmable Features:

#### Zone Mode:

- 1 input:
  - 2K EOL supervised configurable for either voltage or ground trip
- Zone Mode/Radio Fault Output: Open collector ground trigger (programmable for fail-safe)

#### Programmability:

- Pulse steady bell detection (fire/burg) (not for UL installation)
- Restoral reporting
- Delayed reporting
- Dual central station reporting
- Supports silent panic for LYNX products

#### Serial Mode:

- Simple 4 wire connection to certain Vista controls using the keypad bus.
- Fully supervised connection between control and radio
- Full contact ID reporting on certain Ademco controls
- Programmable relay emulation mode
  - Provides connectivity to Ademco panels not supporting radio ECP
  - 4 zones

#### Other features:

- Integrated smart swinger suppression
- Integral tamper switch: Dual function tamper switch for cover tamper detection, and installation test functions
- Power fail detection/reporting
- Low battery/battery condition reporting
- 4229 zone expander option
  - Add up to 7 zones on any panel

### Electrical:

#### Power:

- Powered from panel @ 150mA max.
- Optional 12.5VDC @ 3AMP DC power pack
- Backup Battery: Burg: 6V 0.5Ah rechargeable sealed lead acid battery
- Current requirements: 90mA normal operation 400mA peak during transmission

### Mechanical:

#### • Dimensions:

4" W x 6.5" H x 1.5" D (without antenna)

#### • Operating Temperature:

-30° to +60° C

#### • Humidity:

0% to 90% non-condensing

### Transceiver:

- MicroBurst™ Compatible Cellular Radio
- RF power Output: 0.6 watts

### Frequency Band:

- 833-835 MHz Transmit
- 878-880 MHz Receive
- Channel separation: 30 kHz
- Receiver Sensitivity: -115 dBm
- Antenna: 5/8 wave helical unity gain
- Serial Mode: Radio faults are reported to the panel on the serial link

### LED Indicators:

- 3 status LED visible when cover is on
  - Network Connection Status
  - Power Status
  - Alarm Delivery Status
- 7 installation and set-up LEDs visible when cover is off:
  - Signal strength
  - Installation suitability
  - Operating mode

### Zone Inputs and Alarm Functions:

- Reporting format in zone mode:
  - Ademco High Speed
- Reporting format in serial mode:
  - Ademco contact ID on certain Ademco controls
  - Relay emulation mode in Ademco high speed
  - 4229 mode in Ademco high speed

### Coverage Update:

- [www.ADEMCO.com/alarmnet](http://www.ADEMCO.com/alarmnet)

## Control Channel Cellular Subscriber Transceiver

## ORDERING:

Part No.	Description
7845C	Transceiver Battery

### AlarmNet Services

- |   |   |
|---|---|
| A | • AlarmNet - A Original AlarmNet        |
| M | • AlarmNet - M Mobitex System           |
| C | • AlarmNet - C Control Channel Cellular |

Ask your provider for the AlarmNet technology used in your area.

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